What is claimed is:

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- 1. A method for displaying multiple-view stereoscopic images, including the following steps:
 - A) obtaining a set of multiple-view images;
 - B) sending the multiple-view images to the stereoscopic image synthesizer and, then informing the view number of the multiple-view images and the horizontal display resolution and the vertical display resolution of the screen by the stereoscopic image synthesizer after finishing step A; and
 - C) forming the stereoscopic images displayed on the flat panel display with a lenticular lens slanted at an angle after completing step B.
- 2. The method for displaying multiple-view stereoscopic images as claimed in claim 1, wherein one or more than one photographic device (such as a digital camera or a camera simulated by a computer) can be utilized to take the multiple-view stereoscopic images at different angles, and the stereoscopic images should be taken on the same plane through a straight-line path (or an orbital path) by the photographic device at different angles, and the lens of the photographic device can be placed either in parallel to or in convergence on the target.
- 3. The method for displaying multiple-view stereoscopic images as claimed in claim 1, wherein the stereoscopic image synthesizer is using the R, G, B sub-pixels for synthesizing the stereoscopic images so as to replace the conventional stereoscopic image synthesizing method that is using pixel as an unit, and a processing algorithm for synthesizing

the stereoscopic images is applied to execute the stereoscopic image synthesizing.

4. The method for displaying multiple-view stereoscopic images as claimed in claim 1, wherein a lenticular lens is vertically installed or laminated to the screen of the flat panel display, while the lenticular lens is slanted at an angle of about 9.4623 degrees.

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